

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0002 **USGS Hydrologic Unit:** 040400010509
Stream Name: Burns Ditch **County:** Porter
Description: US 20 **Latitude:** 41 35 37.03501 **Longitude:** -87 13 14.49068
Drainage: **Site Number:** 13T-001

SiteID: LMG-05-0002 **Sample Date:** 4/8/2013 **IDEM Sample #:** AB11797
Water Flow Type Run **Water Appearance** Green **Water Depth** **Algae?**
Water Flow (cf/sec): 61.398 **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	82.2 %		ASTM D888-09(C)
DO	8.94 mg/L		ASTM D888-09(C)
pH (Field)	7.99 SU		EPA 150.2
Specific Conductance (Field)	1116 umho/cm		SM2510B
Temperature	11.43 °C		SM2550B(2)
Turbidity (Hach)	27.5 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	4 Lookup		Observation

Lab ID #: A980091	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	31 mg/L	1	SM2540D
Solids, Total (TS)	670 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	620 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.83 mg/L	0.05	EPA 353.2
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	1.7 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11797	Result	Reporting Limit	Method
Coliforms (Total)	770.1 MPN/100mL	1	SM9223B
E. coli	162.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0002

Sample Date: 5/6/2013

IDEM Sample #: AB12347

Water Flow Type Run

Water Appearance Green

Water Depth Algae?

Water Flow (cf/sec): 133.06

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	84.8 %		ASTM D888-09(C)
DO	8.28 mg/L		ASTM D888-09(C)
pH (Field)	8.01 SU		EPA 150.2
Specific Conductance (Field)	872 umho/cm		SM2510B
Temperature	16.46 °C		SM2550B(2)
Turbidity (Hach)	18 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833598	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.4 mg/L	0.1	EPA 353.2
Lab ID #: A982629	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	23 mg/L	1	SM2540D
Solids, Total (TS)	520 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	490 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.14 mg/L	0.05	EPA 365.1
TKN	1.5 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12347	Result	Reporting Limit	Method
Coliforms (Total)	1986.3 MPN/100mL	1	SM9223B
E. coli	26.9 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
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Surface Water Results Summary**

SiteID: LMG-05-0002 Sample Date: 6/10/2013 IDEM Sample #: AB12772
 Water Flow Type Run Water Appearance Brown Water Depth Algae?
 Water Flow (cf/sec): 104.84 Flow Estimated? Aquatic Life? Canopy Closed % 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	58.4 %		ASTM D888-09(C)
DO	5.18 mg/L		ASTM D888-09(C)
pH (Field)	7.7 SU		EPA 150.2
Specific Conductance (Field)	893 umho/cm		SM2510B
Temperature	21.02 °C		SM2550B(2)
Turbidity (Hach)	16.3 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986400	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	20 mg/L	1	SM2540D
Solids, Total (TS)	500 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	510 mg/L	10	SM2540C
Nitrogen, Ammonia	0.14 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.62 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.17 mg/L	0.05	EPA 365.1
TKN	0.96 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12772	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	307.6 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	1 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	2 - Mod./Light	3 - 46-60
4 - Cloudy		3 - Moderate	4 - 61-75
5 - Mist		4 - Mod./Strong	5 - 76-85
6 - Fog		5 - Strong	6 - > 86
7 - Shower		6 - Gale	

**Indiana Department of Environmental Management
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Surface Water Results Summary**

SiteID: LMG-05-0003 **USGS Hydrologic Unit:** 040400010509
Stream Name: Willow Creek **County:** Porter
Description: Clem Road **Latitude:** 41 35 17.82917 **Longitude:** -87 12 15.90561
Drainage: **Site Number:** 13T-002

SiteID: LMG-05-0003 **Sample Date:** 4/8/2013 **IDEM Sample #:** AB11808
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	109.8 %		ASTM D888-09(C)
DO	11.98 mg/L		ASTM D888-09(C)
pH (Field)	7.97 SU		EPA 150.2
Specific Conductance (Field)	1363 umho/cm		SM2510B
Temperature	11.24 °C		SM2550B(2)
Turbidity (Hach)	5.06 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> A980092	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	2 mg/L	1	SM2540D
Solids, Total (TS)	780 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	720 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.1 mg/L	0.05	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.53 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11808	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	648.8 MPN/100mL	1	SM9223B
E. coli	461.1 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0003

Sample Date: 5/6/2013

IDEM Sample #: AB12358

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	121.7 %		ASTM D888-09(C)
DO	12.78 mg/L		ASTM D888-09(C)
pH (Field)	8.01 SU		EPA 150.2
Specific Conductance (Field)	1024 umho/cm		SM2510B
Temperature	13.01 °C		SM2550B(2)
Turbidity (Hach)	4.75 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833600	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	1.2 mg/L	0.1	EPA 353.2
Lab ID #: A982631	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	1 mg/L	1	SM2540D
Solids, Total (TS)	700 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	680 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.65 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12358	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	167 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
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Surface Water Results Summary**

SiteID: LMG-05-0003

Sample Date: 6/10/2013

IDEM Sample #: AB12783

Water Flow Type Run

Water Appearance Brown

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	73.9 %		ASTM D888-09(C)
DO	6.92 mg/L		ASTM D888-09(C)
pH (Field)	7.5 SU		EPA 150.2
Specific Conductance (Field)	677 umho/cm		SM2510B
Temperature	18.47 °C		SM2550B(2)
Turbidity (Hach)	18.8 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986402	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	19 mg/L	1	SM2540D
Solids, Total (TS)	440 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	370 mg/L	10	SM2540C
Nitrogen, Ammonia	0.2 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.2 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.1 mg/L	0.05	EPA 365.1
TKN	0.75 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12783	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	> 2419.6 MPN/100mL	2419.6	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
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Surface Water Results Summary**

SiteID: LMG-05-0004 **USGS Hydrologic Unit:** 040400010509
Stream Name: Willow Creek **County:** Porter
Description: Stone Avenue **Latitude:** 41 33 53.72915 **Longitude:** -87 11 20.59828
Drainage: **Site Number:** 13T-003

SiteID: LMG-05-0004 **Sample Date:** 4/8/2013 **IDEM Sample #:** AB11819
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	94.8 %		ASTM D888-09(C)
DO	10.37 mg/L		ASTM D888-09(C)
pH (Field)	7.88 SU		EPA 150.2
Specific Conductance (Field)	1906 umho/cm		SM2510B
Temperature	11.07 °C		SM2550B(2)
Turbidity (Hach)	14.7 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	4 Lookup		Observation

Lab ID #: A980093	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	10 mg/L	1	SM2540D
Solids, Total (TS)	1100 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	1000 mg/L	10	SM2540C
Nitrogen, Ammonia	0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	2.5 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.06 mg/L	0.05	EPA 365.1
TKN	0.55 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11819	Result	Reporting Limit	Method
Coliforms (Total)	1553.1 MPN/100mL	1	SM9223B
E. coli	1413.6 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0004

Sample Date: 5/6/2013

IDEM Sample #: AB12369

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	107.3 %		ASTM D888-09(C)
DO	11 mg/L		ASTM D888-09(C)
pH (Field)	8 SU		EPA 150.2
Specific Conductance (Field)	1088 umho/cm		SM2510B
Temperature	13.61 °C		SM2550B(2)
Turbidity (Hach)	3.63 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833601	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	3.4 mg/L	0.1	EPA 353.2
Lab ID #: A982632	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	2 mg/L	1	SM2540D
Solids, Total (TS)	590 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	570 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.3 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12369	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	167 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0004

Sample Date: 6/10/2013

IDEM Sample #: AB12794

Water Flow Type Run

Water Appearance Brown

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	71.6 %		ASTM D888-09(C)
DO	6.67 mg/L		ASTM D888-09(C)
pH (Field)	7.53 SU		EPA 150.2
Specific Conductance (Field)	716 umho/cm		SM2510B
Temperature	18.57 °C		SM2550B(2)
Turbidity (Hach)	24.3 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986403	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	29 mg/L	1	SM2540D
Solids, Total (TS)	440 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	400 mg/L	10	SM2540C
Nitrogen, Ammonia	0.16 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	2.3 mg/L	0.05	EPA 353.2
Phosphorus, Total	0.084 mg/L	0.05	EPA 365.1
TKN	0.66 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12794	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	> 2419.6 MPN/100mL	2419.6	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0006 **USGS Hydrologic Unit:** 040400010508
Stream Name: Deep River **County:** Lake
Description: 29th Avenue **Latitude:** 41 33 56.09423 **Longitude:** -87 17 39.74435
Drainage: **Site Number:** 13T-005

SiteID: LMG-05-0006 **Sample Date:** 4/8/2013 **IDEM Sample #:** AB11827
Water Flow Type Run **Water Appearance** Green **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	107.5 %		ASTM D888-09(C)
DO	11.42 mg/L		ASTM D888-09(C)
pH (Field)	8.47 SU		EPA 150.2
Specific Conductance (Field)	972 umho/cm		SM2510B
Temperature	12.52 °C		SM2550B(2)
Turbidity (Hach)	23.2 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	4 Lookup		Observation

<u>Lab ID #:</u> A980095	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	25 mg/L	1	SM2540D
Solids, Total (TS)	590 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	530 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.51 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.11 mg/L	0.05	EPA 365.1
TKN	0.8 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11827	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	1413.6 MPN/100mL	1	SM9223B
E. coli	344.8 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0006

Sample Date: 5/6/2013

IDEM Sample #: AB12377

Water Flow Type Run

Water Appearance Green

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	116.2 %		ASTM D888-09(C)
DO	11.11 mg/L		ASTM D888-09(C)
pH (Field)	8.47 SU		EPA 150.2
Specific Conductance (Field)	758 umho/cm		SM2510B
Temperature	17.37 °C		SM2550B(2)
Turbidity (Hach)	22.6 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833602	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982633	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	21 mg/L	1	SM2540D
Solids, Total (TS)	460 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.11 mg/L	0.05	EPA 365.1
TKN	0.53 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12377	Result	Reporting Limit	Method
Coliforms (Total)	1299.7 MPN/100mL	1	SM9223B
E. coli	13.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0006

Sample Date: 6/10/2013

IDEM Sample #: AB12802

Water Flow Type Run

Water Appearance Green

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	86.2 %		ASTM D888-09(C)
DO	7.61 mg/L		ASTM D888-09(C)
pH (Field)	7.94 SU		EPA 150.2
Specific Conductance (Field)	779 umho/cm		SM2510B
Temperature	21.21 °C		SM2550B(2)
Turbidity (Hach)	12.1 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986404	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	12 mg/L	1	SM2540D
Solids, Total (TS)	490 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	460 mg/L	10	SM2540C
Nitrogen, Ammonia	0.11 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.43 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.11 mg/L	0.05	EPA 365.1
TKN	0.54 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12802	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	214.3 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0007 **USGS Hydrologic Unit:** 040400010508
Stream Name: Deep River **County:** Lake
Description: Liverpool Road **Latitude:** 41 33 46.16178 **Longitude:** -87 17 26.81088
Drainage: **Site Number:** 13T-006

SiteID: LMG-05-0007 **Sample Date:** 4/8/2013 **IDEM Sample #:** AB11828
Water Flow Type Run **Water Appearance** Green **Water Depth** **Algae?**
Water Flow (cf/sec): 76.738 **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	132 %		ASTM D888-09(C)
DO	13.57 mg/L		ASTM D888-09(C)
pH (Field)	8.53 SU		EPA 150.2
Specific Conductance (Field)	977 umho/cm		SM2510B
Temperature	13.93 °C		SM2550B(2)
Turbidity (Hach)	29 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

<u>Lab ID #:</u> A980096	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	25 mg/L	1	SM2540D
Solids, Total (TS)	590 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	540 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.55 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.11 mg/L	0.05	EPA 365.1
TKN	1.3 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11828	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	1553.1 MPN/100mL	1	SM9223B
E. coli	260.3 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0007

Sample Date: 5/6/2013

IDEM Sample #: AB12378

Water Flow Type Pool

Water Appearance Murky

Water Depth

Algae?

Water Flow (cf/sec): 75.255

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	188.4 %		ASTM D888-09(C)
DO	17.66 mg/L		ASTM D888-09(C)
pH (Field)	8.65 SU		EPA 150.2
Specific Conductance (Field)	835 umho/cm		SM2510B
Temperature	18.7 °C		SM2550B(2)
Turbidity (Hach)	16.1 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833603	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982634	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	20 mg/L	1	SM2540D
Solids, Total (TS)	460 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.11 mg/L	0.05	EPA 365.1
TKN	1.4 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12378	Result	Reporting Limit	Method
Coliforms (Total)	328.2 MPN/100mL	1	SM9223B
E. coli	35 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0007 Sample Date: 6/10/2013 IDEM Sample #: AB12803
 Water Flow Type Pool Water Appearance Murky Water Depth Algae?
 Water Flow (cf/sec): 71.361 Flow Estimated? Aquatic Life? Canopy Closed % 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	96.3 %		ASTM D888-09(C)
DO	8.22 mg/L		ASTM D888-09(C)
pH (Field)	8.12 SU		EPA 150.2
Specific Conductance (Field)	775 umho/cm		SM2510B
Temperature	23.16 °C		SM2550B(2)
Turbidity (Hach)	7.03 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986405	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	6 mg/L	1	SM2540D
Solids, Total (TS)	500 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	440 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.4 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.071 mg/L	0.05	EPA 365.1
TKN	0.75 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12803	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	93.2 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	1 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	2 - Mod./Light	3 - 46-60
4 - Cloudy		3 - Moderate	4 - 61-75
5 - Mist		4 - Mod./Strong	5 - 76-85
6 - Fog		5 - Strong	6 - > 86
7 - Shower		6 - Gale	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0008 **USGS Hydrologic Unit:** 040400010508
Stream Name: Tributary of Deep River **County:** Lake
Description: Shelby Street **Latitude:** 41 33 31.78599 **Longitude:** -87 14 10.86231
Drainage: **Site Number:** 13T-007

SiteID: LMG-05-0008 **Sample Date:** 4/8/2013 **IDEM Sample #:** AB11829
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	98.5 %		ASTM D888-09(C)
DO	10.62 mg/L		ASTM D888-09(C)
pH (Field)	7.85 SU		EPA 150.2
Specific Conductance (Field)	1033 umho/cm		SM2510B
Temperature	11.98 °C		SM2550B(2)
Turbidity (Hach)	4.39 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

<u>Lab ID #:</u> A980097	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	3 mg/L	1	SM2540D
Solids, Total (TS)	590 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	550 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.63 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.06 mg/L	0.05	EPA 365.1
TKN	0.51 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11829	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	435.2 MPN/100mL	1	SM9223B
E. coli	285.1 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0008

Sample Date: 5/6/2013

IDEM Sample #: AB12379

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	98.3 %		ASTM D888-09(C)
DO	9.86 mg/L		ASTM D888-09(C)
pH (Field)	7.89 SU		EPA 150.2
Specific Conductance (Field)	931 umho/cm		SM2510B
Temperature	15.1 °C		SM2550B(2)
Turbidity (Hach)	3.64 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833604	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.5 mg/L	0.1	EPA 353.2
Lab ID #: A982635	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	2 mg/L	1	SM2540D
Solids, Total (TS)	530 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	520 mg/L	10	SM2540C
Nitrogen, Ammonia	0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.07 mg/L	0.05	EPA 365.1
TKN	0.45 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12379	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	172.5 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0008

Sample Date: 6/10/2013

IDEM Sample #: AB12804

Water Flow Type Run

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	80.5 %		ASTM D888-09(C)
DO	7.27 mg/L		ASTM D888-09(C)
pH (Field)	7.64 SU		EPA 150.2
Specific Conductance (Field)	781 umho/cm		SM2510B
Temperature	20.18 °C		SM2550B(2)
Turbidity (Hach)	13 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: A986406	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	15 mg/L	1	SM2540D
Solids, Total (TS)	500 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	440 mg/L	10	SM2540C
Nitrogen, Ammonia	0.14 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.43 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.15 mg/L	0.05	EPA 365.1
TKN	1 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12804	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	1732.9 MPN/100mL	1	SM9223B

Weather Code Definitions					
SC	WD	WS	AT		
Sky Conditions	Wind Direction	Wind Strength	Air Temp		
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist				4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG030-0008 **USGS Hydrologic Unit:** 040400010507
Stream Name: Deep River **County:** Lake
Description: Ridge Rd, D/S of Lake George Dam, Hobart **Latitude:** 41 32 7.43000 **Longitude:** -87 15 23.13000
Drainage: 124 **Site Number:** 13T-008

SiteID: LMG030-0008 **Sample Date:** 4/8/2013 **IDEM Sample #:** AB11830
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	115.4 %		ASTM D888-09(C)
DO	12.12 mg/L		ASTM D888-09(C)
pH (Field)	8.55 SU		EPA 150.2
Specific Conductance (Field)	996 umho/cm		SM2510B
Temperature	13.03 °C		SM2550B(2)
Turbidity (Hach)	22.9 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	3 Lookup		Observation

<u>Lab ID #:</u> A980098	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	33 mg/L	1	SM2540D
Solids, Total (TS)	620 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	550 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.64 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	1.1 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11830	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	980.4 MPN/100mL	1	SM9223B
E. coli	1119.9 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG030-0008

Sample Date: 5/6/2013

IDEM Sample #: AB12380

Water Flow Type Run

Water Appearance Green

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	134.2 %		ASTM D888-09(C)
DO	12.71 mg/L		ASTM D888-09(C)
pH (Field)	8.53 SU		EPA 150.2
Specific Conductance (Field)	772 umho/cm		SM2510B
Temperature	17.96 °C		SM2550B(2)
Turbidity (Hach)	11.4 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833605	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.2 mg/L	0.1	EPA 353.2
Lab ID #: A982636	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	19 mg/L	1	SM2540D
Solids, Total (TS)	470 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	440 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.078 mg/L	0.05	EPA 365.1
TKN	1.2 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12380	Result	Reporting Limit	Method
Coliforms (Total)	1413.6 MPN/100mL	1	SM9223B
E. coli	30.5 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG030-0008

Sample Date: 6/10/2013

IDEM Sample #: AB12805

Water Flow Type Run

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	138.4 %		ASTM D888-09(C)
DO	11.82 mg/L		ASTM D888-09(C)
pH (Field)	8.62 SU		EPA 150.2
Specific Conductance (Field)	755 umho/cm		SM2510B
Temperature	22.84 °C		SM2550B(2)
Turbidity (Hach)	12.9 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: A986407	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	22 mg/L	1	SM2540D
Solids, Total (TS)	490 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	430 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.23 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.11 mg/L	0.05	EPA 365.1
TKN	1.2 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12805	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	272.3 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0009 **USGS Hydrologic Unit:** 040400010506
Stream Name: Duck Creek **County:** Lake
Description: Front Street **Latitude:** 41 32 5.62143 **Longitude:** -87 15 14.33857
Drainage: **Site Number:** 13T-009

SiteID: LMG-05-0009 **Sample Date:** 4/8/2013 **IDEM Sample #:** AB11831
Water Flow Type: Pool **Water Appearance:** Murky **Water Depth:** **Algae?**
Water Flow (cf/sec): 5.2591 **Flow Estimated?** **Aquatic Life?** **Canopy Closed %:** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	146 %		ASTM D888-09(C)
DO	14.83 mg/L		ASTM D888-09(C)
pH (Field)	8.28 SU		EPA 150.2
Specific Conductance (Field)	850 umho/cm		SM2510B
Temperature	14.57 °C		SM2550B(2)
Turbidity (Hach)	7.6 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	4 Lookup		Observation

<u>Lab ID #:</u> A980099	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	6 mg/L	1	SM2540D
Solids, Total (TS)	510 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	450 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.84 mg/L	0.05	EPA 353.2
Phosphorus, Total	0.056 mg/L	0.05	EPA 365.1
TKN	0.57 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11831	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	387.3 MPN/100mL	1	SM9223B
E. coli	95.9 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0009 Sample Date: 5/6/2013 IDEM Sample #: AB12381
 Water Flow Type: Glide Water Appearance: Murky Water Depth: Algae?
 Water Flow (cf/sec): 6.3007 Flow Estimated? Aquatic Life? Canopy Closed %: 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	144.8 %		ASTM D888-09(C)
DO	13.74 mg/L		ASTM D888-09(C)
pH (Field)	8.21 SU		EPA 150.2
Specific Conductance (Field)	690 umho/cm		SM2510B
Temperature	17.78 °C		SM2550B(2)
Turbidity (Hach)	9.01 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833606	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.8 mg/L	0.1	EPA 353.2
Lab ID #: A982637	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	7 mg/L	1	SM2540D
Solids, Total (TS)	400 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	370 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.095 mg/L	0.05	EPA 365.1
TKN	0.88 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12381	Result	Reporting Limit	Method
Coliforms (Total)	1986.3 MPN/100mL	1	SM9223B
E. coli	142.1 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0009 Sample Date: 6/10/2013 IDEM Sample #: AB12806
 Water Flow Type: Glide Water Appearance: Clear Water Depth: Algae?
 Water Flow (cf/sec): 7.6466 Flow Estimated? Aquatic Life? Canopy Closed %: 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	62.1 %		ASTM D888-09(C)
DO	5.38 mg/L		ASTM D888-09(C)
pH (Field)	7.56 SU		EPA 150.2
Specific Conductance (Field)	708 umho/cm		SM2510B
Temperature	22.34 °C		SM2550B(2)
Turbidity (Hach)	5.92 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986408	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	3 mg/L	1	SM2540D
Solids, Total (TS)	440 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	390 mg/L	10	SM2540C
Nitrogen, Ammonia	0.21 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.52 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.14 mg/L	0.05	EPA 365.1
TKN	0.96 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12806	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	517.2 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	1 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	2 - Mod./Light	3 - 46-60
4 - Cloudy		3 - Moderate	4 - 61-75
5 - Mist		4 - Mod./Strong	5 - 76-85
6 - Fog		5 - Strong	6 - > 86
7 - Shower		6 - Gale	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0010 **USGS Hydrologic Unit:** 040400010506
Stream Name: Tributary of Duck Creek **County:** Lake
Description: 10th Street **Latitude:** 41 31 17.70971 **Longitude:** -87 14 23.41143
Drainage: **Site Number:** 13T-010

SiteID: LMG-05-0010 **Sample Date:** 4/8/2013 **IDEM Sample #:** AB11798
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	144.4 %		ASTM D888-09(C)
DO	14.6 mg/L		ASTM D888-09(C)
pH (Field)	8.23 SU		EPA 150.2
Specific Conductance (Field)	628 umho/cm		SM2510B
Temperature	14.77 °C		SM2550B(2)
Turbidity (Hach)	2.87 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A980100	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	3 mg/L	1	SM2540D
Solids, Total (TS)	380 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	360 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.1 mg/L	0.05	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.57 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11798	Result	Reporting Limit	Method
Coliforms (Total)	316.9 MPN/100mL	1	SM9223B
E. coli	43.5 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0010

Sample Date: 5/6/2013

IDEM Sample #: AB12348

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	138 %		ASTM D888-09(C)
DO	12.96 mg/L		ASTM D888-09(C)
pH (Field)	8.29 SU		EPA 150.2
Specific Conductance (Field)	582 umho/cm		SM2510B
Temperature	18.25 °C		SM2550B(2)
Turbidity (Hach)	3.18 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833607	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.4 mg/L	0.1	EPA 353.2
Lab ID #: A982638	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	1 mg/L	1	SM2540D
Solids, Total (TS)	330 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	320 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.78 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12348	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	214.3 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0010

Sample Date: 6/10/2013

IDEM Sample #: AB12773

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	88.6 %		ASTM D888-09(C)
DO	7.78 mg/L		ASTM D888-09(C)
pH (Field)	7.76 SU		EPA 150.2
Specific Conductance (Field)	562 umho/cm		SM2510B
Temperature	21.67 °C		SM2550B(2)
Turbidity (Hach)	5.28 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986409	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	3 mg/L	1	SM2540D
Solids, Total (TS)	380 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	320 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.39 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.099 mg/L	0.05	EPA 365.1
TKN	0.75 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12773	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	435.2 MPN/100mL	1	SM9223B

Weather Code Definitions					
SC	WD	WS	AT		
Sky Conditions	Wind Direction	Wind Strength	Air Temp		
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist				4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0032 **USGS Hydrologic Unit:** 040400010506
Stream Name: Duck Creek **County:** Porter
Description: 750 W **Latitude:** 41 30 59.19250 **Longitude:** -87 12 38.70570
Drainage: **Site Number:** 13T-011

SiteID: LMG-05-0032 **Sample Date:** 4/8/2013 **IDEM Sample #:** AB11799
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	130.2 %		ASTM D888-09(C)
DO	13.55 mg/L		ASTM D888-09(C)
pH (Field)	8.26 SU		EPA 150.2
Specific Conductance (Field)	700 umho/cm		SM2510B
Temperature	13.5 °C		SM2550B(2)
Turbidity (Hach)	6.42 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

<u>Lab ID #:</u> A980101	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	5 mg/L	1	SM2540D
Solids, Total (TS)	430 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	400 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	2.8 mg/L	0.2	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.74 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11799	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	547.5 MPN/100mL	1	SM9223B
E. coli	143 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0032

Sample Date: 5/6/2013

IDEM Sample #: AB12349

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	145.7 %		ASTM D888-09(C)
DO	14.53 mg/L		ASTM D888-09(C)
pH (Field)	8.4 SU		EPA 150.2
Specific Conductance (Field)	578 umho/cm		SM2510B
Temperature	15.6 °C		SM2550B(2)
Turbidity (Hach)	4.88 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833608	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	2.1 mg/L	0.1	EPA 353.2
Lab ID #: A982639	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	5 mg/L	1	SM2540D
Solids, Total (TS)	350 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	330 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.094 mg/L	0.05	EPA 365.1
TKN	1.2 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12349	Result	Reporting Limit	Method
Coliforms (Total)	1732.9 MPN/100mL	1	SM9223B
E. coli	85.2 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0032

Sample Date: 6/10/2013

IDEM Sample #: AB12774

Water Flow Type Run

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	80 %		ASTM D888-09(C)
DO	7.57 mg/L		ASTM D888-09(C)
pH (Field)	7.79 SU		EPA 150.2
Specific Conductance (Field)	667 umho/cm		SM2510B
Temperature	17.92 °C		SM2550B(2)
Turbidity (Hach)	24.7 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986410	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	23 mg/L	1	SM2540D
Solids, Total (TS)	480 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	370 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	4.5 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	0.89 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12774	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	2419.6 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0011 **USGS Hydrologic Unit:** 040400010507
Stream Name: Deep River **County:** Lake
Description: Arizona Street **Latitude:** 41 30 42.80903 **Longitude:** -87 17 9.53295
Drainage: **Site Number:** 13T-012

SiteID: LMG-05-0011 **Sample Date:** 4/8/2013 **IDEM Sample #:** AB11800
Water Flow Type Run **Water Appearance** Green **Water Depth** **Algae?**
Water Flow (cf/sec): 41.577 **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	156.7 %		ASTM D888-09(C)
DO	15.87 mg/L		ASTM D888-09(C)
pH (Field)	8.41 SU		EPA 150.2
Specific Conductance (Field)	875 umho/cm		SM2510B
Temperature	14.74 °C		SM2550B(2)
Turbidity (Hach)	10.6 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A980102	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	14 mg/L	1	SM2540D
Solids, Total (TS)	550 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	490 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	3.1 mg/L	0.2	EPA 353.2
Phosphorus, Total	0.094 mg/L	0.05	EPA 365.1
TKN	1 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11800	Result	Reporting Limit	Method
Coliforms (Total)	128.1 MPN/100mL	1	SM9223B
E. coli	70.3 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0011

Sample Date: 5/6/2013

IDEM Sample #: AB12350

Water Flow Type Run

Water Appearance Green

Water Depth Algae?

Water Flow (cf/sec): 46.377

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	140.5 %		ASTM D888-09(C)
DO	13.34 mg/L		ASTM D888-09(C)
pH (Field)	8.34 SU		EPA 150.2
Specific Conductance (Field)	772 umho/cm		SM2510B
Temperature	18.37 °C		SM2550B(2)
Turbidity (Hach)	9.55 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833611	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	2.3 mg/L	0.1	EPA 353.2
Lab ID #: A982640	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	11 mg/L	1	SM2540D
Solids, Total (TS)	470 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	440 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.1 mg/L	0.05	EPA 365.1
TKN	0.99 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12350	Result	Reporting Limit	Method
Coliforms (Total)	1732.9 MPN/100mL	1	SM9223B
E. coli	55.6 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0011 Sample Date: 6/10/2013 IDEM Sample #: AB12775
 Water Flow Type: Glide Water Appearance: Murky Water Depth: Algae?
 Water Flow (cf/sec): 25.711 Flow Estimated? Aquatic Life? Canopy Closed %: 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	87.7 %		ASTM D888-09(C)
DO	7.96 mg/L		ASTM D888-09(C)
pH (Field)	7.96 SU		EPA 150.2
Specific Conductance (Field)	508 umho/cm		SM2510B
Temperature	20.18 °C		SM2550B(2)
Turbidity (Hach)	5.73 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986411	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	18 mg/L	1	SM2540D
Solids, Total (TS)	500 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	3.1 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.28 mg/L	0.05	EPA 365.1
TKN	1.5 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12775	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	193.5 MPN/100mL	1	SM9223B

Weather Code Definitions					
SC	WD	WS	AT		
Sky Conditions	Wind Direction	Wind Strength	Air Temp		
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist				4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0033 **USGS Hydrologic Unit:** 040400010507
Stream Name: Sprout Ditch **County:** Lake
Description: 70th Avenue **Latitude:** 41 29 34.65281 **Longitude:** -87 17 15.43279
Drainage: **Site Number:** 13T-013

SiteID: LMG-05-0033 **Sample Date:** 4/8/2013 **IDEM Sample #:** AB11801
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	141.5 %		ASTM D888-09(C)
DO	14.18 mg/L		ASTM D888-09(C)
pH (Field)	8.4 SU		EPA 150.2
Specific Conductance (Field)	2127 umho/cm		SM2510B
Temperature	15.04 °C		SM2550B(2)
Turbidity (Hach)	6.93 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A980103	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	6 mg/L	1	SM2540D
Solids, Total (TS)	1200 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	1100 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.26 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.05 mg/L	0.05	EPA 365.1
TKN	0.66 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11801	Result	Reporting Limit	Method
Coliforms (Total)	613.1 MPN/100mL	1	SM9223B
E. coli	178.9 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0033

Sample Date: 5/6/2013

IDEM Sample #: AB12351

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	146 %		ASTM D888-09(C)
DO	14.58 mg/L		ASTM D888-09(C)
pH (Field)	8.42 SU		EPA 150.2
Specific Conductance (Field)	1470 umho/cm		SM2510B
Temperature	15.6 °C		SM2550B(2)
Turbidity (Hach)	6.85 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833612	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.2 mg/L	0.1	EPA 353.2
Lab ID #: A982641	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	11 mg/L	1	SM2540D
Solids, Total (TS)	800 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	760 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.074 mg/L	0.05	EPA 365.1
TKN	0.78 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12351	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	579.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0033

Sample Date: 6/10/2013

IDEM Sample #: AB12776

Water Flow Type Run

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	58.5 %		ASTM D888-09(C)
DO	5.44 mg/L		ASTM D888-09(C)
pH (Field)	7.61 SU		EPA 150.2
Specific Conductance (Field)	1026 umho/cm		SM2510B
Temperature	18.75 °C		SM2550B(2)
Turbidity (Hach)	15.1 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	3 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986412	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	8 mg/L	1	SM2540D
Solids, Total (TS)	610 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	540 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.4 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.089 mg/L	0.05	EPA 365.1
TKN	0.82 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12776	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	> 2419.6 MPN/100mL	2419.6	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0012 **USGS Hydrologic Unit:** 040400010507
Stream Name: Deep River **County:** Lake
Description: Joliet Road **Latitude:** 41 28 34.10215 **Longitude:** -87 13 12.54660
Drainage: **Site Number:** 13T-014

SiteID: LMG-05-0012 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11802
Water Flow Type Riffle **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): 28.1603 **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
	% Sat	81.3 %	ASTM D888-09(C)
	DO	8.86 mg/L	ASTM D888-09(C)
	pH (Field)	8.13 SU	EPA 150.2
	Specific Conductance (Field)	897 umho/cm	SM2510B
	Temperature	11.4 °C	SM2550B(2)
	Turbidity (Hach)	5.99 NTU	EPA 180.1
	Air Temp	2 Lookup	Observation
	Sky Conditions	4 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	1 Lookup	Observation

Lab ID #: A980104	Result	Reporting Limit	Method	
	Solids, Suspended Total, (TSS)	5 mg/L	1	SM2540D
	Solids, Total (TS)	540 mg/L	10	SM2540B
	Solids, Total Dissolved (TDS)	510 mg/L	10	SM2540C
	Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
	Nitrogen, Nitrate+Nitrite	2.5 mg/L	0.1	EPA 353.2
	Phosphorus, Total	0.082 mg/L	0.05	EPA 365.1
	TKN	0.66 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11802	Result	Reporting Limit	Method	
	Coliforms (Total)	980.4 MPN/100mL	1	SM9223B
	E. coli	172.3 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0012 Sample Date: 5/7/2013 IDEM Sample #: AB12352
 Water Flow Type Run Water Appearance Clear Water Depth Algae?
 Water Flow (cf/sec): 23.8999 Flow Estimated? Aquatic Life? Canopy Closed % 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	96 %		ASTM D888-09(C)
DO	10.05 mg/L		ASTM D888-09(C)
pH (Field)	8.15 SU		EPA 150.2
Specific Conductance (Field)	797 umho/cm		SM2510B
Temperature	13.18 °C		SM2550B(2)
Turbidity (Hach)	7.2 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: 2833613	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	2.7 mg/L	0.1	EPA 353.2

Lab ID #: A982642	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	4 mg/L	1	SM2540D
Solids, Total (TS)	460 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	450 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.082 mg/L	0.05	EPA 365.1
TKN	1.1 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12352	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	78.9 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0012 Sample Date: 6/11/2013 IDEM Sample #: AB12777
 Water Flow Type Run Water Appearance Clear Water Depth Algae?
 Water Flow (cf/sec): 20.4652 Flow Estimated? Aquatic Life? Canopy Closed % 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	80.8 %		ASTM D888-09(C)
DO	7.63 mg/L		ASTM D888-09(C)
pH (Field)	7.99 SU		EPA 150.2
Specific Conductance (Field)	780 umho/cm		SM2510B
Temperature	18.05 °C		SM2550B(2)
Turbidity (Hach)	7.17 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986413	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	7 mg/L	1	SM2540D
Solids, Total (TS)	480 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	2.7 mg/L	0.1	EPA 353.2
Phosphorus, Total	0.18 mg/L	0.05	EPA 365.1
TKN	0.92 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12777	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	435.2 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0013 **USGS Hydrologic Unit:** 040400010504
Stream Name: Tributary of Deep River **County:** Porter
Description: 750 W **Latitude:** 41 27 52.24286 **Longitude:** -87 12 36.59618
Drainage: **Site Number:** 13T-015

SiteID: LMG-05-0013 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11803
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	90.7 %		ASTM D888-09(C)
DO	10.36 mg/L		ASTM D888-09(C)
pH (Field)	8.08 SU		EPA 150.2
Specific Conductance (Field)	657 umho/cm		SM2510B
Temperature	9.4 °C		SM2550B(2)
Turbidity (Hach)	7.79 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	0 Lookup		Observation

<u>Lab ID #:</u> A980105	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	7 mg/L	1	SM2540D
Solids, Total (TS)	420 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	430 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.1 mg/L	0.01	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.31 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11803	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	235.9 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0013

Sample Date: 5/7/2013

IDEM Sample #: AB12353

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	96.4 %		ASTM D888-09(C)
DO	10.7 mg/L		ASTM D888-09(C)
pH (Field)	8.11 SU		EPA 150.2
Specific Conductance (Field)	662 umho/cm		SM2510B
Temperature	11.04 °C		SM2550B(2)
Turbidity (Hach)	6.61 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation
Lab ID #: 2833615	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982644	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	4 mg/L	1	SM2540D
Solids, Total (TS)	510 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	460 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.44 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12353	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	166.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0013

Sample Date: 6/11/2013

IDEM Sample #: AB12778

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	85.8 %		ASTM D888-09(C)
DO	8.71 mg/L		ASTM D888-09(C)
pH (Field)	7.96 SU		EPA 150.2
Specific Conductance (Field)	733 umho/cm		SM2510B
Temperature	14.66 °C		SM2550B(2)
Turbidity (Hach)	12.4 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A986414	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	9 mg/L	1	SM2540D
Solids, Total (TS)	490 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	450 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.2 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.057 mg/L	0.05	EPA 365.1
TKN	0.54 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12778	Result	Reporting Limit	Method
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	461.1 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 South (180 Degrees)	3 - 46-60
4 - Cloudy		27 West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0034 **USGS Hydrologic Unit:** 040400010504
Stream Name: Tributary of Deep River **County:** Lake
Description: 89th Avenue **Latitude:** 41 27 22.78824 **Longitude:** -87 13 45.50682
Drainage: **Site Number:** 13T-016

SiteID: LMG-05-0034 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11804
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	90.4 %		ASTM D888-09(C)
DO	10.34 mg/L		ASTM D888-09(C)
pH (Field)	8.01 SU		EPA 150.2
Specific Conductance (Field)	700 umho/cm		SM2510B
Temperature	9.29 °C		SM2550B(2)
Turbidity (Hach)	8.22 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> A980106	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	12 mg/L	1	SM2540D
Solids, Total (TS)	440 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	400 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.14 mg/L	0.01	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.45 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11804	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	151.5 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0034

Sample Date: 5/7/2013

IDEM Sample #: AB12354

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	96.5 %		ASTM D888-09(C)
DO	10.34 mg/L		ASTM D888-09(C)
pH (Field)	8.08 SU		EPA 150.2
Specific Conductance (Field)	604 umho/cm		SM2510B
Temperature	12.26 °C		SM2550B(2)
Turbidity (Hach)	8.78 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation
Lab ID #: 2833616	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.2 mg/L	0.1	EPA 353.2
Lab ID #: A982645	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	8 mg/L	1	SM2540D
Solids, Total (TS)	430 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	410 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.55 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12354	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	209.8 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0034

Sample Date: 6/11/2013

IDEM Sample #: AB12779

Water Flow Type Run

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	89.9 %		ASTM D888-09(C)
DO	8.94 mg/L		ASTM D888-09(C)
pH (Field)	8.02 SU		EPA 150.2
Specific Conductance (Field)	730 umho/cm		SM2510B
Temperature	15.53 °C		SM2550B(2)
Turbidity (Hach)	15.5 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A986415	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	36 mg/L	1	SM2540D
Solids, Total (TS)	480 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.3 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.091 mg/L	0.05	EPA 365.1
TKN	0.69 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12779	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	488.4 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0014 **USGS Hydrologic Unit:** 040400010504
Stream Name: Tributary of Deep River **County:** Lake
Description: 93rd Avenue **Latitude:** 41 26 56.94874 **Longitude:** -87 14 50.29153
Drainage: **Site Number:** 13T-017

SiteID: LMG-05-0014 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11805
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	87.6 %		ASTM D888-09(C)
DO	10.02 mg/L		ASTM D888-09(C)
pH (Field)	7.99 SU		EPA 150.2
Specific Conductance (Field)	847 umho/cm		SM2510B
Temperature	9.32 °C		SM2550B(2)
Turbidity (Hach)	6.45 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A980107	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	4 mg/L	1	SM2540D
Solids, Total (TS)	540 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	500 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	< 0.01 mg/L	0.01	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.3 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11805	Result	Reporting Limit	Method
Coliforms (Total)	1203.3 MPN/100mL	1	SM9223B
E. coli	185 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0014

Sample Date: 5/7/2013

IDEM Sample #: AB12355

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	94.1 %		ASTM D888-09(C)
DO	10.29 mg/L		ASTM D888-09(C)
pH (Field)	8.02 SU		EPA 150.2
Specific Conductance (Field)	782 umho/cm		SM2510B
Temperature	11.3 °C		SM2550B(2)
Turbidity (Hach)	5.79 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833617	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982646	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	3 mg/L	1	SM2540D
Solids, Total (TS)	540 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	470 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.47 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12355	Result	Reporting Limit	Method
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	186 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0014

Sample Date: 6/11/2013

IDEM Sample #: AB12780

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	77.2 %		ASTM D888-09(C)
DO	7.48 mg/L		ASTM D888-09(C)
pH (Field)	7.89 SU		EPA 150.2
Specific Conductance (Field)	730 umho/cm		SM2510B
Temperature	16.86 °C		SM2550B(2)
Turbidity (Hach)	5.34 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A986416	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	3 mg/L	1	SM2540D
Solids, Total (TS)	450 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	370 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.088 mg/L	0.01	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.47 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12780	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	290.9 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	1 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	2 - South (180 Degrees)	3 - 46-60
4 - Cloudy		3 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0015 **USGS Hydrologic Unit:** 040400010502
Stream Name: Deep River **County:** Lake
Description: Clay Street **Latitude:** 41 26 49.37521 **Longitude:** -87 16 39.42753
Drainage: **Site Number:** 13T-018

SiteID: LMG-05-0015 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11806
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): 13.1919 **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	78.2 %		ASTM D888-09(C)
DO	8.44 mg/L		ASTM D888-09(C)
pH (Field)	7.85 SU		EPA 150.2
Specific Conductance (Field)	1050 umho/cm		SM2510B
Temperature	11.82 °C		SM2550B(2)
Turbidity (Hach)	9.86 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A980108	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	9 mg/L	1	SM2540D
Solids, Total (TS)	640 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	580 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	4.4 mg/L	0.2	EPA 353.2
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	1.2 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11806	Result	Reporting Limit	Method
Coliforms (Total)	1986.3 MPN/100mL	1	SM9223B
E. coli	166.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0015 Sample Date: 5/7/2013 IDEM Sample #: AB12356
 Water Flow Type: Glide Water Appearance: Murky Water Depth: Algae?
 Water Flow (cf/sec): 15.6038 Flow Estimated? Aquatic Life? Canopy Closed %: 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	94.1 %		ASTM D888-09(C)
DO	9.62 mg/L		ASTM D888-09(C)
pH (Field)	7.84 SU		EPA 150.2
Specific Conductance (Field)	851 umho/cm		SM2510B
Temperature	14.28 °C		SM2550B(2)
Turbidity (Hach)	8.23 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833618	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	4.9 mg/L	0.1	EPA 353.2
Lab ID #: A982647	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	6 mg/L	1	SM2540D
Solids, Total (TS)	560 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	500 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.2 mg/L	0.05	EPA 365.1
TKN	1.2 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12356	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	116 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0015 Sample Date: 6/11/2013 IDEM Sample #: AB12781
 Water Flow Type: Glide Water Appearance: Clear Water Depth: Algae?
 Water Flow (cf/sec): 10.6319 Flow Estimated? Aquatic Life? Canopy Closed %: 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	60 %		ASTM D888-09(C)
DO	5.61 mg/L		ASTM D888-09(C)
pH (Field)	7.58 SU		EPA 150.2
Specific Conductance (Field)	701 umho/cm		SM2510B
Temperature	18.47 °C		SM2550B(2)
Turbidity (Hach)	5.9 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986417	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	5 mg/L	1	SM2540D
Solids, Total (TS)	500 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	440 mg/L	10	SM2540C
Nitrogen, Ammonia	0.11 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	6.1 mg/L	0.2	EPA 353.2
Phosphorus, Total	0.3 mg/L	0.05	EPA 365.1
TKN	1.2 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12781	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	547.5 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0035 **USGS Hydrologic Unit:** 040400010504
Stream Name: Deer Creek **County:** Lake
Description: 97th Avenue **Latitude:** 41 26 30.93013 **Longitude:** -87 16 12.66699
Drainage: **Site Number:** 13T-019

SiteID: LMG-05-0035 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11807
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	79.4 %		ASTM D888-09(C)
DO	8.73 mg/L		ASTM D888-09(C)
pH (Field)	7.77 SU		EPA 150.2
Specific Conductance (Field)	883 umho/cm		SM2510B
Temperature	10.93 °C		SM2550B(2)
Turbidity (Hach)	30.4 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> A980109	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	30 mg/L	1	SM2540D
Solids, Total (TS)	550 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	480 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.51 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.22 mg/L	0.05	EPA 365.1
TKN	1.3 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11807	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	151.5 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0035

Sample Date: 5/7/2013

IDEM Sample #: AB12357

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	102.8 %		ASTM D888-09(C)
DO	10.45 mg/L		ASTM D888-09(C)
pH (Field)	7.87 SU		EPA 150.2
Specific Conductance (Field)	735 umho/cm		SM2510B
Temperature	14.54 °C		SM2550B(2)
Turbidity (Hach)	13.8 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation
Lab ID #: 2833619	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.4 mg/L	0.1	EPA 353.2
Lab ID #: A982648	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	16 mg/L	1	SM2540D
Solids, Total (TS)	470 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	400 mg/L	10	SM2540C
Nitrogen, Ammonia	0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.14 mg/L	0.05	EPA 365.1
TKN	1.3 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12357	Result	Reporting Limit	Method
Coliforms (Total)	1413.6 MPN/100mL	1	SM9223B
E. coli	129.1 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0035

Sample Date: 6/11/2013

IDEM Sample #: AB12782

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	58 %		ASTM D888-09(C)
DO	5.34 mg/L		ASTM D888-09(C)
pH (Field)	7.57 SU		EPA 150.2
Specific Conductance (Field)	799 umho/cm		SM2510B
Temperature	19.29 °C		SM2550B(2)
Turbidity (Hach)	33.8 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A986418	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	34 mg/L	1	SM2540D
Solids, Total (TS)	510 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	430 mg/L	10	SM2540C
Nitrogen, Ammonia	0.36 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.35 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.23 mg/L	0.05	EPA 365.1
TKN	1.3 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12782	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	313 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0016 **USGS Hydrologic Unit:** 040400010502
Stream Name: Niles Ditch **County:** Lake
Description: Colorado Street **Latitude:** 41 25 25.12623 **Longitude:** -87 17 48.02873
Drainage: **Site Number:** 13T-020

SiteID: LMG-05-0016 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11809
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	70.5 %		ASTM D888-09(C)
DO	7.61 mg/L		ASTM D888-09(C)
pH (Field)	7.63 SU		EPA 150.2
Specific Conductance (Field)	841 umho/cm		SM2510B
Temperature	11.75 °C		SM2550B(2)
Turbidity (Hach)	8.61 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> A980111	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	6 mg/L	1	SM2540D
Solids, Total (TS)	560 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	510 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.77 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.1 mg/L	0.05	EPA 365.1
TKN	1.1 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11809	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	816.4 MPN/100mL	1	SM9223B
E. coli	52 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0016

Sample Date: 5/7/2013

IDEM Sample #: AB12359

Water Flow Type Run

Water Appearance Green

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	91.7 %		ASTM D888-09(C)
DO	9.21 mg/L		ASTM D888-09(C)
pH (Field)	7.54 SU		EPA 150.2
Specific Conductance (Field)	756 umho/cm		SM2510B
Temperature	15.13 °C		SM2550B(2)
Turbidity (Hach)	24.6 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833620	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.8 mg/L	0.1	EPA 353.2
Lab ID #: A982649	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	20 mg/L	1	SM2540D
Solids, Total (TS)	540 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	490 mg/L	10	SM2540C
Nitrogen, Ammonia	0.14 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.14 mg/L	0.05	EPA 365.1
TKN	1.5 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12359	Result	Reporting Limit	Method
Coliforms (Total)	1119.9 MPN/100mL	1	SM9223B
E. coli	40.2 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0016

Sample Date: 6/11/2013

IDEM Sample #: AB12784

Water Flow Type Run

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	67.2 %		ASTM D888-09(C)
DO	5.94 mg/L		ASTM D888-09(C)
pH (Field)	7.63 SU		EPA 150.2
Specific Conductance (Field)	849 umho/cm		SM2510B
Temperature	20.94 °C		SM2550B(2)
Turbidity (Hach)	9.13 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A986419	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	11 mg/L	1	SM2540D
Solids, Total (TS)	550 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	460 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.54 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	1 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12784	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	344.1 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0017 **USGS Hydrologic Unit:** 040400010502
Stream Name: Niles Ditch **County:** Lake
Description: 121st Avenue **Latitude:** 41 23 53.86221 **Longitude:** -87 18 6.33929
Drainage: **Site Number:** 13T-021

SiteID: LMG-05-0017 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11810
Water Flow Type Run **Water Appearance** Green **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	115.5 %		ASTM D888-09(C)
DO	12.26 mg/L		ASTM D888-09(C)
pH (Field)	7.79 SU		EPA 150.2
Specific Conductance (Field)	877 umho/cm		SM2510B
Temperature	12.56 °C		SM2550B(2)
Turbidity (Hach)	14 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A980112	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	16 mg/L	1	SM2540D
Solids, Total (TS)	570 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	500 mg/L	10	SM2540C
Nitrogen, Ammonia	0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.82 mg/L	0.05	EPA 353.2
Phosphorus, Total	0.1 mg/L	0.05	EPA 365.1
TKN	1.3 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11810	Result	Reporting Limit	Method
Coliforms (Total)	866.4 MPN/100mL	1	SM9223B
E. coli	307.6 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0017

Sample Date: 5/7/2013

IDEM Sample #: AB12360

Water Flow Type Run

Water Appearance Green

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	157.2 %		ASTM D888-09(C)
DO	14.95 mg/L		ASTM D888-09(C)
pH (Field)	7.8 SU		EPA 150.2
Specific Conductance (Field)	770 umho/cm		SM2510B
Temperature	17.32 °C		SM2550B(2)
Turbidity (Hach)	11.2 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	9 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833621	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.9 mg/L	0.1	EPA 353.2
Lab ID #: A982650	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	18 mg/L	1	SM2540D
Solids, Total (TS)	510 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	440 mg/L	10	SM2540C
Nitrogen, Ammonia	0.11 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.14 mg/L	0.05	EPA 365.1
TKN	1.7 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12360	Result	Reporting Limit	Method
Coliforms (Total)	1119.9 MPN/100mL	1	SM9223B
E. coli	22.6 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0017

Sample Date: 6/11/2013

IDEM Sample #: AB12785

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	59.7 %		ASTM D888-09(C)
DO	5.39 mg/L		ASTM D888-09(C)
pH (Field)	7.49 SU		EPA 150.2
Specific Conductance (Field)	836 umho/cm		SM2510B
Temperature	20.3 °C		SM2550B(2)
Turbidity (Hach)	3.23 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986420	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	1 mg/L	1	SM2540D
Solids, Total (TS)	500 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	460 mg/L	10	SM2540C
Nitrogen, Ammonia	0.18 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.66 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.11 mg/L	0.05	EPA 365.1
TKN	1.2 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12785	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	34.1 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0036 **USGS Hydrologic Unit:** 040400010502
Stream Name: Smith Ditch **County:** Lake
Description: 113th Avenue **Latitude:** 41 24 46.14435 **Longitude:** -87 19 58.51046
Drainage: **Site Number:** 13T-022

SiteID: LMG-05-0036 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11811
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	56.6 %		ASTM D888-09(C)
DO	5.93 mg/L		ASTM D888-09(C)
pH (Field)	7.44 SU		EPA 150.2
Specific Conductance (Field)	1396 umho/cm		SM2510B
Temperature	13.02 °C		SM2550B(2)
Turbidity (Hach)	92.4 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> A980113	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	75 mg/L	1	SM2540D
Solids, Total (TS)	870 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	730 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	< 0.01 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.17 mg/L	0.05	EPA 365.1
TKN	1.1 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11811	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	290.9 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0036

Sample Date: 5/7/2013

IDEM Sample #: AB12361

Water Flow Type Run

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	86.9 %		ASTM D888-09(C)
DO	8 mg/L		ASTM D888-09(C)
pH (Field)	7.58 SU		EPA 150.2
Specific Conductance (Field)	1014 umho/cm		SM2510B
Temperature	18.14 °C		SM2550B(2)
Turbidity (Hach)	94.2 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833622	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982651	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	68 mg/L	1	SM2540D
Solids, Total (TS)	690 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	570 mg/L	10	SM2540C
Nitrogen, Ammonia	0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.19 mg/L	0.05	EPA 365.1
TKN	1.1 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12361	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	365.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0036 Sample Date: 6/11/2013 IDEM Sample #: AB12786
 Water Flow Type: Glide Water Appearance: Murky Water Depth: Algae?
 Water Flow (cf/sec): Flow Estimated? Aquatic Life? Canopy Closed %: 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	137.9 %		ASTM D888-09(C)
DO	10.86 mg/L		ASTM D888-09(C)
pH (Field)	7.78 SU		EPA 150.2
Specific Conductance (Field)	1028 umho/cm		SM2510B
Temperature	26.95 °C		SM2550B(2)
Turbidity (Hach)	54.8 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986421	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	38 mg/L	1	SM2540D
Solids, Total (TS)	630 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	550 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	< 0.01 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.14 mg/L	0.05	EPA 365.1
TKN	1.2 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12786	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	307.6 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0018 **USGS Hydrologic Unit:** 040400010502
Stream Name: Main Beaver Dam Ditch **County:** Lake
Description: Grant Street **Latitude:** 41 26 7.99158 **Longitude:** -87 21 17.01167
Drainage: **Site Number:** 13T-023

SiteID: LMG-05-0018 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11812
Water Flow Type Riffle **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): 7.4202 **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
	% Sat	86.5 %	ASTM D888-09(C)
	DO	9.18 mg/L	ASTM D888-09(C)
	pH (Field)	7.45 SU	EPA 150.2
	Specific Conductance (Field)	1061 umho/cm	SM2510B
	Temperature	12.54 °C	SM2550B(2)
	Turbidity (Hach)	7.89 NTU	EPA 180.1
	Air Temp	3 Lookup	Observation
	Sky Conditions	4 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	1 Lookup	Observation

Lab ID #: A980114	Result	Reporting Limit	Method	
	Solids, Suspended Total, (TSS)	6 mg/L	1	SM2540D
	Solids, Total (TS)	700 mg/L	10	SM2540B
	Solids, Total Dissolved (TDS)	560 mg/L	10	SM2540C
	Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
	Nitrogen, Nitrate+Nitrite	10 mg/L	0.5	EPA 353.2
	Phosphorus, Total	0.29 mg/L	0.05	EPA 365.1
	TKN	1.3 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11812	Result	Reporting Limit	Method	
	Coliforms (Total)	920.8 MPN/100mL	1	SM9223B
	E. coli	120.1 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0018

Sample Date: 5/7/2013

IDEM Sample #: AB12362

Water Flow Type Riffle

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec): 7.8196

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	91.8 %		ASTM D888-09(C)
DO	9.15 mg/L		ASTM D888-09(C)
pH (Field)	7.49 SU		EPA 150.2
Specific Conductance (Field)	897 umho/cm		SM2510B
Temperature	15.43 °C		SM2550B(2)
Turbidity (Hach)	6.08 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833623	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	12 mg/L	0.2	EPA 353.2
Lab ID #: A982652	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	11 mg/L	1	SM2540D
Solids, Total (TS)	580 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	480 mg/L	10	SM2540C
Nitrogen, Ammonia	0.23 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.54 mg/L	0.05	EPA 365.1
TKN	1.4 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12362	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	461.1 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0018 Sample Date: 6/11/2013 IDEM Sample #: AB12787
 Water Flow Type Riffle Water Appearance Clear Water Depth Algae?
 Water Flow (cf/sec): 8.1059 Flow Estimated? Aquatic Life? Canopy Closed % 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	61.1 %		ASTM D888-09(C)
DO	5.67 mg/L		ASTM D888-09(C)
pH (Field)	7.21 SU		EPA 150.2
Specific Conductance (Field)	786 umho/cm		SM2510B
Temperature	18.92 °C		SM2550B(2)
Turbidity (Hach)	3.43 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986422	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	1 mg/L	1	SM2540D
Solids, Total (TS)	500 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420 mg/L	10	SM2540C
Nitrogen, Ammonia	0.14 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	11 mg/L	0.2	EPA 353.2
Phosphorus, Total	0.55 mg/L	0.05	EPA 365.1
TKN	1.5 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12787	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	224.7 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0019 **USGS Hydrologic Unit:** 040400010501
Stream Name: Tributary of Main Beaver Dam Ditch **County:** Lake
Description: Summit Street **Latitude:** 41 25 38.38773 **Longitude:** -87 22 9.47453
Drainage: **Site Number:** 13T-024

SiteID: LMG-05-0019 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11813
Water Flow Type Run **Water Appearance** Green **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	75.6 %		ASTM D888-09(C)
DO	7.73 mg/L		ASTM D888-09(C)
pH (Field)	7.42 SU		EPA 150.2
Specific Conductance (Field)	1304 umho/cm		SM2510B
Temperature	12.62 °C		SM2550B(2)
Turbidity (Hach)	24.3 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> A980115	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	18 mg/L	1	SM2540D
Solids, Total (TS)	800 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	690 mg/L	10	SM2540C
Nitrogen, Ammonia	0.27 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.22 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.17 mg/L	0.05	EPA 365.1
TKN	1.6 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11813	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	435.2 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0019

Sample Date: 5/7/2013

IDEM Sample #: AB12363

Water Flow Type Run

Water Appearance Green

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	204.6 %		ASTM D888-09(C)
DO	19.77 mg/L		ASTM D888-09(C)
pH (Field)	8.48 SU		EPA 150.2
Specific Conductance (Field)	966 umho/cm		SM2510B
Temperature	18.04 °C		SM2550B(2)
Turbidity (Hach)	7.55 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation
Lab ID #: 2833624	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.3 mg/L	0.1	EPA 353.2
Lab ID #: A982653	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	5 mg/L	1	SM2540D
Solids, Total (TS)	600 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	550 mg/L	10	SM2540C
Nitrogen, Ammonia	0.18 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.14 mg/L	0.05	EPA 365.1
TKN	1.2 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12363	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	920.8 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0019

Sample Date: 6/11/2013

IDEM Sample #: AB12788

Water Flow Type Run

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	7 %		ASTM D888-09(C)
DO	1.05 mg/L		ASTM D888-09(C)
pH (Field)	6.91 SU		EPA 150.2
Specific Conductance (Field)	1267 umho/cm		SM2510B
Temperature	14.05 °C		SM2550B(2)
Turbidity (Hach)	6.52 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986423	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	1 mg/L	1	SM2540D
Solids, Total (TS)	460 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	440 mg/L	10	SM2540C
Nitrogen, Ammonia	0.96 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	< 0.01 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.29 mg/L	0.05	EPA 365.1
TKN	2.1 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12788	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	103.6 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0020 **USGS Hydrologic Unit:** 040400010501
Stream Name: Main Beaver Dam Ditch **County:** Lake
Description: Clark Road **Latitude:** 41 26 30.26862 **Longitude:** -87 23 33.29661
Drainage: **Site Number:** 13T-025

SiteID: LMG-05-0020 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11814
Water Flow Type Run **Water Appearance** Green **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	124.4 %		ASTM D888-09(C)
DO	12.86 mg/L		ASTM D888-09(C)
pH (Field)	8.07 SU		EPA 150.2
Specific Conductance (Field)	772 umho/cm		SM2510B
Temperature	13.49 °C		SM2550B(2)
Turbidity (Hach)	11.2 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> A980116	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	9 mg/L	1	SM2540D
Solids, Total (TS)	520 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	440 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.1 mg/L	0.05	EPA 353.2
Phosphorus, Total	0.077 mg/L	0.05	EPA 365.1
TKN	1.4 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11814	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	436 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0020

Sample Date: 5/7/2013

IDEM Sample #: AB12364

Water Flow Type Run

Water Appearance Murky

Water Depth

Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	68.8 %		ASTM D888-09(C)
DO	6.35 mg/L		ASTM D888-09(C)
pH (Field)	7.63 SU		EPA 150.2
Specific Conductance (Field)	604 umho/cm		SM2510B
Temperature	19.03 °C		SM2550B(2)
Turbidity (Hach)	15.6 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation
Lab ID #: 2833625	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982654	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	18 mg/L	1	SM2540D
Solids, Total (TS)	410 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	360 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.21 mg/L	0.05	EPA 365.1
TKN	2 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12364	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	613.1 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0020

Sample Date: 6/11/2013

IDEM Sample #: AB12789

Water Flow Type Glide

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	88.6 %		ASTM D888-09(C)
DO	7.65 mg/L		ASTM D888-09(C)
pH (Field)	7.52 SU		EPA 150.2
Specific Conductance (Field)	660 umho/cm		SM2510B
Temperature	22.36 °C		SM2550B(2)
Turbidity (Hach)	8.28 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986424	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	14 mg/L	1	SM2540D
Solids, Total (TS)	440 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	390 mg/L	10	SM2540C
Nitrogen, Ammonia	0.57 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	1.6 mg/L	0.05	EPA 353.2
Phosphorus, Total	0.11 mg/L	0.05	EPA 365.1
TKN	2.4 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12789	Result	Reporting Limit	Method
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	63.8 MPN/100mL	1	SM9223B

Weather Code Definitions					
SC	WD	WS	AT		
Sky Conditions	Wind Direction	Wind Strength	Air Temp		
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist				4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0021 **USGS Hydrologic Unit:** 040400010501
Stream Name: Tributary of Main Beaver Dam Ditch **County:** Lake
Description: 101st Avenue **Latitude:** 41 26 5.82644 **Longitude:** -87 24 10.89102
Drainage: **Site Number:** 13T-026

SiteID: LMG-05-0021 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11815
Water Flow Type Run **Water Appearance** Green **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	113 %		ASTM D888-09(C)
DO	11.4 mg/L		ASTM D888-09(C)
pH (Field)	7.93 SU		EPA 150.2
Specific Conductance (Field)	915 umho/cm		SM2510B
Temperature	14.81 °C		SM2550B(2)
Turbidity (Hach)	9.97 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	0 Lookup		Observation

<u>Lab ID #:</u> A980117	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	8 mg/L	1	SM2540D
Solids, Total (TS)	680 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	540 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	< 0.01 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.091 mg/L	0.05	EPA 365.1
TKN	1.8 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11815	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	613.1 MPN/100mL	1	SM9223B
E. coli	172.3 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0021

Sample Date: 5/7/2013

IDEM Sample #: AB12365

Water Flow Type Run

Water Appearance Murky

Water Depth

Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	75.9 %		ASTM D888-09(C)
DO	6.82 mg/L		ASTM D888-09(C)
pH (Field)	7.65 SU		EPA 150.2
Specific Conductance (Field)	592 umho/cm		SM2510B
Temperature	20.7 °C		SM2550B(2)
Turbidity (Hach)	12.6 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	2 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833626	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982655	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	16 mg/L	1	SM2540D
Solids, Total (TS)	530 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	350 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.21 mg/L	0.05	EPA 365.1
TKN	2 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12365	Result	Reporting Limit	Method
Coliforms (Total)	648.8 MPN/100mL	1	SM9223B
E. coli	73.3 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0021 Sample Date: 6/11/2013 IDEM Sample #: AB12790
 Water Flow Type Pool Water Appearance Brown Water Depth Algae?
 Water Flow (cf/sec): Flow Estimated? Aquatic Life? Canopy Closed % 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	29.8 %		ASTM D888-09(C)
DO	2.62 mg/L		ASTM D888-09(C)
pH (Field)	7.44 SU		EPA 150.2
Specific Conductance (Field)	660 umho/cm		SM2510B
Temperature	24.53 °C		SM2550B(2)
Turbidity (Hach)	25.1 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A986425	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	19 mg/L	1	SM2540D
Solids, Total (TS)	460 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	390 mg/L	10	SM2540C
Nitrogen, Ammonia	0.65 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	< 0.01 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.5 mg/L	0.05	EPA 365.1
TKN	3 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12790	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	648.8 MPN/100mL	1	SM9223B

Weather Code Definitions					
SC	WD	WS	AT		
Sky Conditions	Wind Direction	Wind Strength	Air Temp		
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist				4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0022 **USGS Hydrologic Unit:** 040400010501
Stream Name: Main Beaver Dam Ditch **County:** Lake
Description: Blaine Street **Latitude:** 41 26 53.56478 **Longitude:** -87 25 35.34004
Drainage: **Site Number:** 13T-027

SiteID: LMG-05-0022 **Sample Date:** 4/9/2013 **IDEM Sample #:** AB11816
Water Flow Type Run **Water Appearance** Green **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	83.9 %		ASTM D888-09(C)
DO	8.44 mg/L		ASTM D888-09(C)
pH (Field)	7.86 SU		EPA 150.2
Specific Conductance (Field)	916 umho/cm		SM2510B
Temperature	15.15 °C		SM2550B(2)
Turbidity (Hach)	17.2 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	0 Lookup		Observation

<u>Lab ID #:</u> A980118	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	20 mg/L	1	SM2540D
Solids, Total (TS)	630 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	480 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	< 0.01 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	0.93 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11816	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	866.4 MPN/100mL	1	SM9223B
E. coli	17.5 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0022

Sample Date: 5/7/2013

IDEM Sample #: AB12366

Water Flow Type Run

Water Appearance Brown

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	162.6 %		ASTM D888-09(C)
DO	14.52 mg/L		ASTM D888-09(C)
pH (Field)	7.88 SU		EPA 150.2
Specific Conductance (Field)	1075 umho/cm		SM2510B
Temperature	20.96 °C		SM2550B(2)
Turbidity (Hach)	64.8 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833627	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982656	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	66 mg/L	1	SM2540D
Solids, Total (TS)	750 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	590 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.25 mg/L	0.05	EPA 365.1
TKN	1.7 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12366	Result	Reporting Limit	Method
Coliforms (Total)	272.3 MPN/100mL	1	SM9223B
E. coli	23.1 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0022

Sample Date: 6/11/2013

IDEM Sample #: AB12791

Water Flow Type Glide

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	108.2 %		ASTM D888-09(C)
DO	8.43 mg/L		ASTM D888-09(C)
pH (Field)	7.65 SU		EPA 150.2
Specific Conductance (Field)	900 umho/cm		SM2510B
Temperature	24.85 °C		SM2550B(2)
Turbidity (Hach)	15.7 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986426	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	9 mg/L	1	SM2540D
Solids, Total (TS)	550 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	490 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.019 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	1.1 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12791	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	85.7 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0023 **USGS Hydrologic Unit:** 040400010503
Stream Name: Tributary of Turkey Creek **County:** Lake
Description: 77th Avenue **Latitude:** 41 28 43.21702 **Longitude:** -87 26 17.78891
Drainage: **Site Number:** 13T-028

SiteID: LMG-05-0023 **Sample Date:** 4/10/2013 **IDEM Sample #:** AB11817
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	52.2 %		ASTM D888-09(C)
DO	6.15 mg/L		ASTM D888-09(C)
pH (Field)	7.54 SU		EPA 150.2
Specific Conductance (Field)	1004 umho/cm		SM2510B
Temperature	8.22 °C		SM2550B(2)
Turbidity (Hach)	2.1 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> A980119	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	< 1 mg/L	1	SM2540D
Solids, Total (TS)	630 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	530 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	< 0.01 mg/L	0.01	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.78 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11817	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	34.5 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0023

Sample Date: 5/8/2013

IDEM Sample #: AB12367

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	79.7 %		ASTM D888-09(C)
DO	7.58 mg/L		ASTM D888-09(C)
pH (Field)	7.53 SU		EPA 150.2
Specific Conductance (Field)	745 umho/cm		SM2510B
Temperature	17.63 °C		SM2550B(2)
Turbidity (Hach)	2.57 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833628	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982657	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	2 mg/L	1	SM2540D
Solids, Total (TS)	450 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	420 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.094 mg/L	0.05	EPA 365.1
TKN	0.95 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12367	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	9.7 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0023

Sample Date: 6/12/2013

IDEM Sample #: AB12792

Water Flow Type Glide

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	40.8 %		ASTM D888-09(C)
DO	3.7 mg/L		ASTM D888-09(C)
pH (Field)	7.26 SU		EPA 150.2
Specific Conductance (Field)	652 umho/cm		SM2510B
Temperature	19.98 °C		SM2550B(2)
Turbidity (Hach)	2.66 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A986427	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	1 mg/L	1	SM2540D
Solids, Total (TS)	390 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	330 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	< 0.01 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.12 mg/L	0.05	EPA 365.1
TKN	0.98 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12792	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	115.3 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0024 **USGS Hydrologic Unit:** 040400010503
Stream Name: Turkey Creek **County:** Lake
Description: Broad Street **Latitude:** 41 29 52.83355 **Longitude:** -87 25 39.23606
Drainage: **Site Number:** 13T-029

SiteID: LMG-05-0024 **Sample Date:** 4/10/2013 **IDEM Sample #:** AB11818
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	82.4 %		ASTM D888-09(C)
DO	9.44 mg/L		ASTM D888-09(C)
pH (Field)	7.7 SU		EPA 150.2
Specific Conductance (Field)	1214 umho/cm		SM2510B
Temperature	9.22 °C		SM2550B(2)
Turbidity (Hach)	6.42 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A980120	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	3 mg/L	1	SM2540D
Solids, Total (TS)	830 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	700 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.027 mg/L	0.01	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.72 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11818	Result	Reporting Limit	Method
Coliforms (Total)	1732.9 MPN/100mL	1	SM9223B
E. coli	260.3 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0024

Sample Date: 5/8/2013

IDEM Sample #: AB12368

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	98.9 %		ASTM D888-09(C)
DO	9.96 mg/L		ASTM D888-09(C)
pH (Field)	7.66 SU		EPA 150.2
Specific Conductance (Field)	941 umho/cm		SM2510B
Temperature	15.2 °C		SM2550B(2)
Turbidity (Hach)	9.99 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833629	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982658	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	5 mg/L	1	SM2540D
Solids, Total (TS)	620 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	590 mg/L	10	SM2540C
Nitrogen, Ammonia	0.12 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.073 mg/L	0.05	EPA 365.1
TKN	< 0.3 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12368	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	410.6 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0024

Sample Date: 6/12/2013

IDEM Sample #: AB12793

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	77.1 %		ASTM D888-09(C)
DO	7.03 mg/L		ASTM D888-09(C)
pH (Field)	7.58 SU		EPA 150.2
Specific Conductance (Field)	722 umho/cm		SM2510B
Temperature	19.85 °C		SM2550B(2)
Turbidity (Hach)	7.46 NTU		EPA 180.1
Air Temp	5 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A986428	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	4 mg/L	1	SM2540D
Solids, Total (TS)	500 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	390 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.062 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	1.1 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12793	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	920.8 MPN/100mL	1	SM9223B

Weather Code Definitions					
SC	WD	WS	AT		
Sky Conditions	Wind Direction	Wind Strength	Air Temp		
1 - Clear	8 - Rain	0	North (0 Degrees)	0 - Calm	1 - < 32
2 - Scattered	9 - Snow	9	East (90 Degrees)	1 - Light	2 - 33-45
3 - Partly	10 - Sleet	18	South (180 Degrees)	2 - Mod./Light	3 - 46-60
4 - Cloudy		27	West (270 Degrees)	3 - Moderate	4 - 61-75
5 - Mist				4 - Mod./Strong	5 - 76-85
6 - Fog				5 - Strong	6 - > 86
7 - Shower				6 - Gale	

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0025 **USGS Hydrologic Unit:** 040400010503
Stream Name: Johnson Ditch **County:** Lake
Description: Oak Ridge Prairie County Park **Latitude:** 41 31 2.36617 **Longitude:** -87 23 45.32733
Drainage: **Site Number:** 13T-030

SiteID: LMG-05-0025 **Sample Date:** 4/10/2013 **IDEM Sample #:** AB11820
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

<u>Lab ID #:</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
% Sat	87.9 %		ASTM D888-09(C)
DO	10.22 mg/L		ASTM D888-09(C)
pH (Field)	8.05 SU		EPA 150.2
Specific Conductance (Field)	709 umho/cm		SM2510B
Temperature	8.58 °C		SM2550B(2)
Turbidity (Hach)	6.33 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

<u>Lab ID #:</u> A980121	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Solids, Suspended Total, (TSS)	5 mg/L	1	SM2540D
Solids, Total (TS)	450 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	400 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.055 mg/L	0.01	EPA 353.2
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.45 mg/L	0.3	SM4500N(Org)-D

<u>Lab ID #:</u> AB11820	<u>Result</u>	<u>Reporting Limit</u>	<u>Method</u>
Coliforms (Total)	517.2 MPN/100mL	1	SM9223B
E. coli	7.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0025

Sample Date: 5/8/2013

IDEM Sample #: AB12370

Water Flow Type Run

Water Appearance Murky

Water Depth

Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	128 %		ASTM D888-09(C)
DO	12.45 mg/L		ASTM D888-09(C)
pH (Field)	8.15 SU		EPA 150.2
Specific Conductance (Field)	666 umho/cm		SM2510B
Temperature	16.56 °C		SM2550B(2)
Turbidity (Hach)	6.41 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833630	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982659	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	3 mg/L	1	SM2540D
Solids, Total (TS)	430 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	390 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.73 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12370	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	75.9 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0025

Sample Date: 6/12/2013

IDEM Sample #: AB12795

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	43.9 %		ASTM D888-09(C)
DO	3.81 mg/L		ASTM D888-09(C)
pH (Field)	7.65 SU		EPA 150.2
Specific Conductance (Field)	590 umho/cm		SM2510B
Temperature	21.88 °C		SM2550B(2)
Turbidity (Hach)	4.16 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986429	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	2 mg/L	1	SM2540D
Solids, Total (TS)	360 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	310 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.019 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.056 mg/L	0.05	EPA 365.1
TKN	0.69 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12795	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	290.9 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0026 **USGS Hydrologic Unit:** 040400010503
Stream Name: Tributary of Turkey Creek **County:** Lake
Description: W Old Lincoln Hwy **Latitude:** 41 29 9.86802 **Longitude:** -87 23 36.21233
Drainage: **Site Number:** 13T-031

SiteID: LMG-05-0026 **Sample Date:** 4/10/2013 **IDEM Sample #:** AB11821
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	87.5 %		ASTM D888-09(C)
DO	10.25 mg/L		ASTM D888-09(C)
pH (Field)	8.07 SU		EPA 150.2
Specific Conductance (Field)	1108 umho/cm		SM2510B
Temperature	8.32 °C		SM2550B(2)
Turbidity (Hach)	12.1 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A980122	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	7 mg/L	1	SM2540D
Solids, Total (TS)	690 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	610 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.085 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.058 mg/L	0.05	EPA 365.1
TKN	0.66 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11821	Result	Reporting Limit	Method
Coliforms (Total)	1299.7 MPN/100mL	1	SM9223B
E. coli	191.8 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0026

Sample Date: 5/8/2013

IDEM Sample #: AB12371

Water Flow Type Run

Water Appearance Murky

Water Depth

Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	22.6 %		ASTM D888-09(C)
DO	2.03 mg/L		ASTM D888-09(C)
pH (Field)	7.99 SU		EPA 150.2
Specific Conductance (Field)	611 umho/cm		SM2510B
Temperature	14.54 °C		SM2550B(2)
Turbidity (Hach)	35.6 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833631	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982660	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	21 mg/L	1	SM2540D
Solids, Total (TS)	390 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	350 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	0.5 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12371	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	488.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0026

Sample Date: 6/12/2013

IDEM Sample #: AB12796

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	77.5 %		ASTM D888-09(C)
DO	6.96 mg/L		ASTM D888-09(C)
pH (Field)	7.79 SU		EPA 150.2
Specific Conductance (Field)	570 umho/cm		SM2510B
Temperature	20.61 °C		SM2550B(2)
Turbidity (Hach)	17.5 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A986430	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	7 mg/L	1	SM2540D
Solids, Total (TS)	350 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	280 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.14 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.11 mg/L	0.05	EPA 365.1
TKN	0.87 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12796	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	1203.3 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	1 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	2 - South (180 Degrees)	3 - 46-60
4 - Cloudy		3 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0027 **USGS Hydrologic Unit:** 040400010503
Stream Name: Turkey Creek **County:** Lake
Description: SR 55 **Latitude:** 41 29 55.14927 **Longitude:** -87 21 53.14879
Drainage: **Site Number:** 13T-032

SiteID: LMG-05-0027 **Sample Date:** 4/10/2013 **IDEM Sample #:** AB11822
Water Flow Type: Glide **Water Appearance:** Clear **Water Depth:** **Algae?**
Water Flow (cf/sec): 7.5854 **Flow Estimated?** **Aquatic Life?** **Canopy Closed %:** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
	% Sat	74.3 %	ASTM D888-09(C)
	DO	8.67 mg/L	ASTM D888-09(C)
	pH (Field)	7.86 SU	EPA 150.2
	Specific Conductance (Field)	1030 umho/cm	SM2510B
	Temperature	8.48 °C	SM2550B(2)
	Turbidity (Hach)	8.17 NTU	EPA 180.1
	Air Temp	3 Lookup	Observation
	Sky Conditions	5 Lookup	Observation
	Wind Direction	27 Lookup	Observation
	Wind Strength	2 Lookup	Observation

Lab ID #: A980123	Result	Reporting Limit	Method	
	Solids, Suspended Total, (TSS)	4 mg/L	1	SM2540D
	Solids, Total (TS)	710 mg/L	10	SM2540B
	Solids, Total Dissolved (TDS)	580 mg/L	10	SM2540C
	Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
	Nitrogen, Nitrate+Nitrite	0.1 mg/L	0.01	EPA 353.2
	Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
	TKN	0.58 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11822	Result	Reporting Limit	Method	
	Coliforms (Total)	1413.6 MPN/100mL	1	SM9223B
	E. coli	107.6 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0027

Sample Date: 5/8/2013

IDEM Sample #: AB12372

Water Flow Type Glide

Water Appearance Murky

Water Depth

Algae?

Water Flow (cf/sec): 8.822

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	92.1 %		ASTM D888-09(C)
DO	9.6 mg/L		ASTM D888-09(C)
pH (Field)	7.87 SU		EPA 150.2
Specific Conductance (Field)	907 umho/cm		SM2510B
Temperature	13.39 °C		SM2550B(2)
Turbidity (Hach)	10 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833632	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	0.2 mg/L	0.1	EPA 353.2
Lab ID #: A982661	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	8 mg/L	1	SM2540D
Solids, Total (TS)	620 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	640 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	< 0.3 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12372	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	54.8 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0027 Sample Date: 6/12/2013 IDEM Sample #: AB12797
 Water Flow Type: Glide Water Appearance: Murky Water Depth: Algae?
 Water Flow (cf/sec): 11.4038 Flow Estimated? Aquatic Life? Canopy Closed %: 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	68 %		ASTM D888-09(C)
DO	6.15 mg/L		ASTM D888-09(C)
pH (Field)	7.68 SU		EPA 150.2
Specific Conductance (Field)	777 umho/cm		SM2510B
Temperature	20.19 °C		SM2550B(2)
Turbidity (Hach)	11.9 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986431	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	13 mg/L	1	SM2540D
Solids, Total (TS)	530 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	450 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.5 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.084 mg/L	0.05	EPA 365.1
TKN	0.78 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12797	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	156.5 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0028 **USGS Hydrologic Unit:** 040400010503
Stream Name: Tributary of Turkey Creek **County:** Lake
Description: 73rd Avenue **Latitude:** 41 29 8.36566 **Longitude:** -87 22 25.01390
Drainage: **Site Number:** 13T-033

SiteID: LMG-05-0028 **Sample Date:** 4/10/2013 **IDEM Sample #:** AB11823
Water Flow Type Run **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	77.4 %		ASTM D888-09(C)
DO	9.2 mg/L		ASTM D888-09(C)
pH (Field)	7.88 SU		EPA 150.2
Specific Conductance (Field)	963 umho/cm		SM2510B
Temperature	7.72 °C		SM2550B(2)
Turbidity (Hach)	6.86 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A980124	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	5 mg/L	1	SM2540D
Solids, Total (TS)	620 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	530 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.071 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.052 mg/L	0.05	EPA 365.1
TKN	0.78 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11823	Result	Reporting Limit	Method
Coliforms (Total)	2419.6 MPN/100mL	1	SM9223B
E. coli	64.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0028

Sample Date: 5/8/2013

IDEM Sample #: AB12373

Water Flow Type Run

Water Appearance Murky

Water Depth

Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	90.6 %		ASTM D888-09(C)
DO	9.16 mg/L		ASTM D888-09(C)
pH (Field)	7.87 SU		EPA 150.2
Specific Conductance (Field)	805 umho/cm		SM2510B
Temperature	14.7 °C		SM2550B(2)
Turbidity (Hach)	10.9 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833633	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982662	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	7 mg/L	1	SM2540D
Solids, Total (TS)	510 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	470 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.079 mg/L	0.05	EPA 365.1
TKN	0.83 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12373	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	980.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0028

Sample Date: 6/12/2013

IDEM Sample #: AB12798

Water Flow Type Run

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	24.8 %		ASTM D888-09(C)
DO	2.4 mg/L		ASTM D888-09(C)
pH (Field)	7.26 SU		EPA 150.2
Specific Conductance (Field)	861 umho/cm		SM2510B
Temperature	18.35 °C		SM2550B(2)
Turbidity (Hach)	13.4 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A986432	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	11 mg/L	1	SM2540D
Solids, Total (TS)	470 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	390 mg/L	10	SM2540C
Nitrogen, Ammonia	0.22 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.056 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.13 mg/L	0.05	EPA 365.1
TKN	0.95 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12798	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	1553.1 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0029 **USGS Hydrologic Unit:** 040400010505
Stream Name: Tributary of Turkey Creek **County:** Lake
Description: Arthur Street **Latitude:** 41 30 21.17193 **Longitude:** -87 21 31.34692
Drainage: **Site Number:** 13T-034

SiteID: LMG-05-0029 **Sample Date:** 4/10/2013 **IDEM Sample #:** AB11824
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	54.3 %		ASTM D888-09(C)
DO	6.28 mg/L		ASTM D888-09(C)
pH (Field)	7.71 SU		EPA 150.2
Specific Conductance (Field)	1400 umho/cm		SM2510B
Temperature	9.23 °C		SM2550B(2)
Turbidity (Hach)	26.6 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	8 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A980125	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	22 mg/L	1	SM2540D
Solids, Total (TS)	850 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	580 mg/L	10	SM2540C
Nitrogen, Ammonia	0.16 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.11 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.15 mg/L	0.05	EPA 365.1
TKN	1.5 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11824	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	228.2 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0029

Sample Date: 5/8/2013

IDEM Sample #: AB12374

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	66 %		ASTM D888-09(C)
DO	6.51 mg/L		ASTM D888-09(C)
pH (Field)	7.73 SU		EPA 150.2
Specific Conductance (Field)	881 umho/cm		SM2510B
Temperature	15.95 °C		SM2550B(2)
Turbidity (Hach)	9.17 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation
Lab ID #: 2833634	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982663	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	7 mg/L	1	SM2540D
Solids, Total (TS)	530 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	480 mg/L	10	SM2540C
Nitrogen, Ammonia	0.11 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.1 mg/L	0.05	EPA 365.1
TKN	1.4 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12374	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	49.6 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0029

Sample Date: 6/12/2013

IDEM Sample #: AB12799

Water Flow Type Glide

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	41.3 %		ASTM D888-09(C)
DO	3.68 mg/L		ASTM D888-09(C)
pH (Field)	7.41 SU		EPA 150.2
Specific Conductance (Field)	629 umho/cm		SM2510B
Temperature	21.44 °C		SM2550B(2)
Turbidity (Hach)	4.1 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation

Lab ID #: A986433	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	2 mg/L	1	SM2540D
Solids, Total (TS)	360 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	320 mg/L	10	SM2540C
Nitrogen, Ammonia	0.21 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.064 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.15 mg/L	0.05	EPA 365.1
TKN	0.95 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12799	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	48.7 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0030 **USGS Hydrologic Unit:** 040400010505
Stream Name: Tributary of Turkey Creek **County:** Lake
Description: 73rd Avenue **Latitude:** 41 29 7.67421 **Longitude:** -87 20 25.37089
Drainage: **Site Number:** 13T-035

SiteID: LMG-05-0030 **Sample Date:** 4/10/2013 **IDEM Sample #:** AB11825
Water Flow Type Riffle **Water Appearance** Clear **Water Depth** **Algae?**
Water Flow (cf/sec): **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	81.2 %		ASTM D888-09(C)
DO	9.25 mg/L		ASTM D888-09(C)
pH (Field)	8.03 SU		EPA 150.2
Specific Conductance (Field)	2595 umho/cm		SM2510B
Temperature	9.16 °C		SM2550B(2)
Turbidity (Hach)	12.2 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	5 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	2 Lookup		Observation

Lab ID #: A980126	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	14 mg/L	1	SM2540D
Solids, Total (TS)	1500 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	1300 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.12 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.058 mg/L	0.05	EPA 365.1
TKN	0.85 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11825	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	686.7 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0030

Sample Date: 5/8/2013

IDEM Sample #: AB12375

Water Flow Type Run

Water Appearance Clear

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	87.2 %		ASTM D888-09(C)
DO	8.86 mg/L		ASTM D888-09(C)
pH (Field)	8.03 SU		EPA 150.2
Specific Conductance (Field)	1817 umho/cm		SM2510B
Temperature	14.45 °C		SM2550B(2)
Turbidity (Hach)	5.34 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	0 Lookup		Observation
Lab ID #: 2833635	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982664	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	3 mg/L	1	SM2540D
Solids, Total (TS)	1100 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	950 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	< 0.05 mg/L	0.05	EPA 365.1
TKN	0.81 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12375	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	579.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0030

Sample Date: 6/12/2013

IDEM Sample #: AB12800

Water Flow Type Run

Water Appearance Murky

Water Depth Algae?

Water Flow (cf/sec):

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	64.5 %		ASTM D888-09(C)
DO	5.67 mg/L		ASTM D888-09(C)
pH (Field)	7.71 SU		EPA 150.2
Specific Conductance (Field)	1440 umho/cm		SM2510B
Temperature	21.63 °C		SM2550B(2)
Turbidity (Hach)	14.5 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986434	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	6 mg/L	1	SM2540D
Solids, Total (TS)	830 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	750 mg/L	10	SM2540C
Nitrogen, Ammonia	0.15 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.25 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.065 mg/L	0.05	EPA 365.1
TKN	0.98 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12800	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	980.4 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0031 **USGS Hydrologic Unit:** 040400010505
Stream Name: Turkey Creek **County:** Lake
Description: Liverpool Road **Latitude:** 41 30 43.24502 **Longitude:** -87 18 24.97031
Drainage: **Site Number:** 13T-036

SiteID: LMG-05-0031 **Sample Date:** 4/10/2013 **IDEM Sample #:** AB11826
Water Flow Type Run **Water Appearance** Murky **Water Depth** **Algae?**
Water Flow (cf/sec): 12.209 **Flow Estimated?** **Aquatic Life?** **Canopy Closed %** 0-20%
Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	69.6 %		ASTM D888-09(C)
DO	7.65 mg/L		ASTM D888-09(C)
pH (Field)	7.78 SU		EPA 150.2
Specific Conductance (Field)	1281 umho/cm		SM2510B
Temperature	10.99 °C		SM2550B(2)
Turbidity (Hach)	14.7 NTU		EPA 180.1
Air Temp	2 Lookup		Observation
Sky Conditions	8 Lookup		Observation
Wind Direction	18 Lookup		Observation
Wind Strength	3 Lookup		Observation

Lab ID #: A980127	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	10 mg/L	1	SM2540D
Solids, Total (TS)	820 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	750 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.046 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.075 mg/L	0.05	EPA 365.1
TKN	0.82 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB11826	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	686.7 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0031

Sample Date: 5/8/2013

IDEM Sample #: AB12376

Water Flow Type Glide

Water Appearance Murky

Water Depth

Algae?

Water Flow (cf/sec): 22.047

Flow Estimated?

Aquatic Life?

Canopy Closed % 0-20%

Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	72.7 %		ASTM D888-09(C)
DO	7.31 mg/L		ASTM D888-09(C)
pH (Field)	7.86 SU		EPA 150.2
Specific Conductance (Field)	998 umho/cm		SM2510B
Temperature	15.04 °C		SM2550B(2)
Turbidity (Hach)	16.5 NTU		EPA 180.1
Air Temp	3 Lookup		Observation
Sky Conditions	1 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation
Lab ID #: 2833636	Result	Reporting Limit	Method
Nitrogen, Nitrate+Nitrite	< 0.1 mg/L	0.1	EPA 353.2
Lab ID #: A982665	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	17 mg/L	1	SM2540D
Solids, Total (TS)	660 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	580 mg/L	10	SM2540C
Nitrogen, Ammonia	< 0.1 mg/L	0.1	SM4500NH3-G
Phosphorus, Total	0.051 mg/L	0.05	EPA 365.1
TKN	1.1 mg/L	0.3	SM4500N(Org)-D
Lab ID #: AB12376	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	579.4 MPN/100mL	1	SM9223B

**Indiana Department of Environmental Management
Office of Water Quality-Watershed Assessment and Planning Branch
Surface Water Results Summary**

SiteID: LMG-05-0031 Sample Date: 6/12/2013 IDEM Sample #: AB12801
 Water Flow Type: Glide Water Appearance: Murky Water Depth: Algae?
 Water Flow (cf/sec): 20.956 Flow Estimated? Aquatic Life? Canopy Closed %: 0-20%
 Sampler Comments:

Lab ID #:	Result	Reporting Limit	Method
% Sat	57.9 %		ASTM D888-09(C)
DO	5.09 mg/L		ASTM D888-09(C)
pH (Field)	7.66 SU		EPA 150.2
Specific Conductance (Field)	840 umho/cm		SM2510B
Temperature	21.51 °C		SM2550B(2)
Turbidity (Hach)	15.1 NTU		EPA 180.1
Air Temp	4 Lookup		Observation
Sky Conditions	4 Lookup		Observation
Wind Direction	27 Lookup		Observation
Wind Strength	1 Lookup		Observation

Lab ID #: A986435	Result	Reporting Limit	Method
Solids, Suspended Total, (TSS)	15 mg/L	1	SM2540D
Solids, Total (TS)	560 mg/L	10	SM2540B
Solids, Total Dissolved (TDS)	460 mg/L	10	SM2540C
Nitrogen, Ammonia	0.12 mg/L	0.1	SM4500NH3-G
Nitrogen, Nitrate+Nitrite	0.45 mg/L	0.01	EPA 353.2
Phosphorus, Total	0.097 mg/L	0.05	EPA 365.1
TKN	1 mg/L	0.3	SM4500N(Org)-D

Lab ID #: AB12801	Result	Reporting Limit	Method
Coliforms (Total)	> 2419.6 MPN/100mL	2419.6	SM9223B
E. coli	387.3 MPN/100mL	1	SM9223B

Weather Code Definitions			
SC Sky Conditions	WD Wind Direction	WS Wind Strength	AT Air Temp
1 - Clear	8 - Rain	0 - North (0 Degrees)	1 - < 32
2 - Scattered	9 - Snow	9 - East (90 Degrees)	2 - 33-45
3 - Partly	10 - Sleet	18 - South (180 Degrees)	3 - 46-60
4 - Cloudy		27 - West (270 Degrees)	4 - 61-75
5 - Mist			5 - 76-85
6 - Fog			6 - > 86
7 - Shower			